

# ENGINEERING CHECKS LHD 1 CLASS

# AUXILIARIES (AX) PRE-UNDERWAY PHASE

Component/Sub-Component	5811	ANCHOR	WINDLASS (Inport	Drop Test)
Inspect Tech Manual Support Inspect PMS Support Inspect posted operating/safety instructions and lubrication data Inspect fluid samples Inspect for proper HPU fluid levels Inspect for proper lubrication of mechanical components Inspect Gauge Calibration Inspect relief valve data is properly posted Inspect all flex hoses are properly tested and labeled Inspect mechanical brake operator linkages Inspect stroke control linkages Inspect flange shields Inspect for adequate nitrogen charge for windlass Inspect speed limiter Inspect adequate LP air pressure for chain compressor Inspect capstan/wildcat brake assembly — mechanical brake components (worm gear end cap as required). Inspect electric brake Inspect filter differential indications Inspect HPU mechanical seal leakage Test Compensating Relief Valve is properly set  - Inspect Servo/Replenishment Pressures during wildcat operation - Inspect Chain Compressor operation - Inspect reduction gear lubrication (gauges/sight flows/dipsticks)	Component/Sub-Com	ponent	Proposed	Accepted
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(gauges/sight flows/dipsticks)	<u>.</u>			
		···		
	Test crossover valve operation			

Test wildcat/windlass solenoid switch	
Test Main Relief Valve lifts correctly	

5600 / 5611	STEERING (In	nport System Ver	rification)
Component/Sub-C	omponent	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOS	S Support		
Inspect PMS Support			
Inspect operating/safety instruc	tions and hydraulic		
system/electrical wiring diagram	ms are posted		
Inspect proper fluid levels			
Inspect hydraulic oil fill connec	ctions are properly		
labeled			
Inspect fluid samples			
Inspect Gauge Calibration			
Inspect rudder stock grounding	straps		
Inspect filter indicators			
Inspect Servo/Replenishment P	ressures are correct		
Inspect all flex hoses are prope	·		
Inspect flange shields are prope	·		
Test N2 accumulators are property	erly charged		
Test the trick wheel stops			
Inspect the crush block clearan			
Test the rudder follow up error	`		
0 to 5 deg; 5 deg increments at	5 to 25 deg)		
Test ABT operation			
Test compensator relief valve s	ettings		
Test main relief valve settings			
Test (inport) rudder swing chec	eks		
Test (inport) blocking valve			
Test auxiliary emergency steeri			
Test manual emergency steering system			
Inspect ram for scoring			
Test steering casualty alarm			
Test pump remote operation an	d transfer of controls		
to pilot house			
Test for static rudder split (pilo			
Test for indicator error (pilot he	ouse in control)		

A-002/105-11	EMERGENCY/SHIP'S SERVICE DIESEL GENERATORS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Engine Sump Level		
Inspect Turbocharger Sump Level		
Inspect Start Air Lubricator Oil Level		
Inspect Governor Oil Level		
Inspect Lube Oil Sample		
Inspect J/W Expansion Tank Level		
Inspect "Do not open access" and Expansion Tank warning "Poison" are posted		
Inspect/test fuel valve trip		
Inspect Relief Valves		
Inspect Flange Shielding		
Inspect For Exhaust Leaks		
Inspect Filters, Strainers		
Inspect Governor and Fuel Linkage for Binding		
Inspect J/W Standby Pump		
Test Blow In Damper		
Test pre-lube system operation		
Test Jacket Water High Temp Alarm		
Test Lube Oil Filter High DP Alarm		
Test low lube oil pressure alarm		
Test Remote Shut Down		
Test Local Shut Down		
Test Barring Device Interlock		
Test Engine Blow Down		
Test Local Pneumatic start		
Test dead bus auto start		
Test Overspeed Trip		
Test 80% load for 15 minutes		
Inspect for fuel/lube oil leaks		
Inspect pyrometer operation		
Inspect manometer		
Inspect sea water cooling pump		
Test high water/generator bearing temp alarm		

5512 / 5513 / 5515	LOW and MEDIUM PRESSURE AIR SYSTEM		
Component/Sub-Co	mponent	Proposed	Accepted
		Procedure	Procedure
Inspect Tech Manual and EOSS	Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect operating/safety instruction			
Inspect compressor oil level and	oil samples		
Test compressor pressures and te	emperatures		
Test compressor capacity contro			
Inspect compressor belt condition			
Test compressor auto control and			
a. Operational control switch	es (115/120/125)		
b. Low oil pressure			
c. High discharge pressure			
d. High air and water temp			
Inspect all relief valve testing is			
Inspect location of intake/vent su			
Inspect receiver flask certification	n		
Test priority valve operation			
Inspect sea water cooling system			
Inspect the 50/50 mixture of ethy			
Test type I and type II dehydrato	r operation		
a. Gauge calibration			
b. Tower operation			
c. Purge air pressure			
d. Automatic drain operation	n		
e. Dew point			
f. Inspect PMS and Tech M	anual support		

5511 / 5515	HIGH PRESSURE AIR SYSTEM		
Component/Sub-	Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EO	SS Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect operating/safety instr	uctions are posted		
Inspect compressor oil level a	and oil samples		
Test compressor auto control	and safety switches		
a. Start / Stop switch			
b. Low oil pressure switch	ch .		
<ul> <li>c. Jacket water temp swit</li> </ul>	ch		
d. Compressor temp/pres	sure monitor operation		
Inspect compressor pressures	and temperatures		
Inspect compressor drive belt	condition		
Inspect condensate monitoring/drain system			
Inspect all flex hoses are proj			
Inspect all relief valve testing	is within periodicity		
Inspect HP air flask certificat	ion		
Inspect sea water cooling sys	tem		
Inspect air intake/ventilation	supply location		
Inspect all HP/LP air reducin	g stations		
Inspect fresh water pump bel	ts		
Inspect capacity			
Inspect oil wipers			
Inspect pressure regulator val	ve		
Inspect seals for oil leaks			
Inspect the 50/50 mixture of	ethylene glycol		

5210	FIRE PUMPS (	FIRE PUMPS (ELECTRIC and STEAM)	
Component/Sub-C	omponent	Proposed	Accepted
		Procedure	Procedure
Inspect Tech Manual and EOSS	S Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect Transducer Calibration			
Inspect Coupling Guard			
Inspect relief valves are within	periodicity		
Test remote start/stop functions			
Test local start/stop functions			
Inspect pump operation/design			
unusual noise, bearing temps, e			
Test the over speed trip (STEA	M)		
Test the speed limiting governo			
Test the turbine auxiliary lube of	oil pump low-pressure		
automatic start switch operation (STEAM)			
Inspect lube oil filter indication	s and oil level		
(STEAM)			
Test combination exhaust and r	elief valve (STEAM)		
Inspect the packing and mechan	nical seal leakage		
Inspect for ferrous fasteners			
Inspect the resilient mounts			
Inspect condition of expansion joints			
Inspect all flex hoses are properly tested/labeled			
Inspect piping lagging			
Inspect grounding straps			
Test remote operated suction/di	scharge valves		
Inspect the suction strainer			

A-262	STERN GATE		
Component	Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual sup	pport		
Inspect PMS support			
Inspect operating/safety	instructions are posted		
Inspect hydraulic oil fill	connections are labeled		
Inspect Local Control Pa	nel (indicator lights,		
communications, operati	on)		
Inspect gauge calibration	1		
Inspect filter indicators			
Inspect all relief valve te	sting is within periodicity		
	limit; up over travel limit;		
closure down)			
Inspect rail bolts			
Inspect slack rope			
Test hydraulic pump (for	undation, mech seal, relief		
valve tested, filter DP in	dicators and coupling guard)		
Inspect operating cables	and set spring		
Test pump operation (cy	cle gate open/closed)		
a. Cycle gate open/clo	osed from all stations		
<ul> <li>b. Record time requir</li> </ul>	ed to open/close gate		
c. Test emergency has	nd pump operation		
Inspect gate seal for leak	age and deterioration		
Inspect gate locking dev	ice		
Inspect ram and track co	ndition		
Inspect emergency riggin	ng		
Inspect LCAC extension	fendering system		
(barndoor)			
a. limit torques			
b. reduction gears			
Test: Conduct underway			
ballast/deballast demons	tration		

A-702/020-61	DEBALLA	AST COMPRESS	SORS
Component/Sub-Component		Proposed	Accepted
		Procedure	Procedure
Inspect Tech Manual and EOS	S Support		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect operating/safety instruc	tions are posted		
Inspect compressor oil level an	d oil samples		
Inspect check valve in the discl	narge line		
Inspect all relief valve testing is	s within periodicity		
Inspect the seawater cooling sy			
Inspect installed alarm panel of			
Test compressor safety switche	S		
a. Low lube oil pressure cut	out		
b. High air pressure cutout			
c. High temperature lube oil	shutdown		
d. High temperature lube oil	l alarm		
e. Dirty air filter alarm			
f. Dirty air filter cutout			
Test operational remote/local s	tart/stop /Controller		
Test check valve in the dischar	ge line		
Test unloader valve			
Inspect de-ballast air header valves			
Test header pressure can be maintained			
Test the discharge pressure			
Test: Conduct underway operational test during			
ballast/deballast demonstration			

5140	AIR CONDITIONING PLANTS		
Component/Sub-Component		Proposed	Accepted
		Procedure	Procedure
Inspect EPA certifications			
Inspect Tech Manual and EO	SS Support		
Inspect PMS Support	**		
Inspect Gauge Calibration			
Inspect operating/safety instructions are posted			
Inspect compressor oil level and oil samples			
Inspect warning at entrance (	Freon usage) posted		
Inspect Refrigerant logs			
Test halocarbon monitor of	peration		
Test capacity control system	operation		
Test calibration of safety shu			
a. HP/LP pressure switch	nes		
b. C/W, S/W flow/press/	temp switches		
c. Low refrigerant temp			
d. Low oil pressure switc			
Inspect moisture indicators			
Test compressor operation (p	arameters, suct/disch		
valves)			
Test for leaks (oil/freon/wate	r)		
Inspect chilled water pump			
a. suction valve			
b. discharge valve			
c. mechanical seal			
Inspect chilled water expansi	on tank		
a. Proper operating leve	1		
b. Filling pipe air gap			
c. Relief valves and vac	uum breakers		
d. Hose disconnects and	warning sign		
Test PPU			
Inspect recovery unit (Invent	ory Item)		
Inspect for available vacuum	pump		
Inspect sea water system			
a. Pump operation			
b. Zincs and nylon tube inserts present			
c. Condenser header con		_	
d. Seawater Regulating v	valve		
Inspect motor controller			
Inspect coupling guard			
Inspect resilient mounts			

Inspect flex hoses	

# AUXILIARIES (AX) UNDERWAY DEMO PHASE

5811	ANCHOR WINDLASS DROP AND RETRIEVAL DEMONSTRATION		
Component/Sub-Con	nponent	Proposed	Accepted
		Procedure	Procedure
Test – Conduct Anchor Drop	and Retrieval		
test			
- Inspect Servo/Replenishmen	ent and Main		
Relief Pressures during wildca	sures during wildcat operation		
- Inspect Anchor drops from the	ne hawsepipe		

5600 / 5611	STEERING DEMONSTRATION		TION
Component/Sub-C	omponent	Proposed	Accepted
		Procedure	Procedure
Inspect proper fluid levels			
Inspect correct Servo/Replenish	nment pressures		
Test – Demonstrate timed rudder swing checks/			
blocking valve test Ahead (as per provided			
procedure)			
Test - Demonstrate timed rudder swing checks/			
blocking valve test Astern (as per provided			
procedure)			
Inspect for dynamic rudder spli	t from helm indicator		

5331	WATER HEATERS		
Component/Sub-	-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EO	SS Support		
Inspect PMS Support			
Inspect list of heaters onboar services (berthing/laundry/ga	-		
Inspect gauge calibration			
Inspect outlet temp at heater	(verify operation)		
Inspect relief valve test data			
Inspect relief valve drain piping			
Inspect cold water inlet pipe	for check valve		
Test high temp switch setting			
Test high temp switch warning	ng light		
Inspect lagging condition			
Inspect for steam / water leak	S		
Inspect Temp Reg Valve for locking device			
Inspect heater foundation			
Test water temp at basin/spig	ot		

5351	STEAM RISER and COPPER SERVICE STEAM PIPING		
Component/Sub-Compo	nent	Proposed Procedure	Accepted Procedure
Inspect Gauge calibration			
Inspect PMS Support			
Inspect warning placard posted – war	rning bleed		
pressure before disconnecting			
Inspect piping/valve condition and or	peration		
Inspect protective cover			
Inspect relief valve for test data			
Inspect overall area preservation			
Inspect ship has reviewed NAVSEA Wash DC R			
130557Z FEB 01 concerning copper	piping		
Inspect the ship has established an in	spection		
program IAW NAVSEA message			
Inspect - Conduct a walkthrough of all copper			
service steam piping to check for lead	ks IAW		
NAVSEA message			

5311	WATER PRODUC FLAS	CTION DEMON SH TYPE EVAP	
Component/Sub-Co	mponent	Proposed Procedure	Accepted Procedure
Inspect PMS and Tech Manual s	upport		
Inspect gauge calibration			
Test flow meter			
Inspect evaporator shell (sight gl and scale buildup)	lasses, diffuser cap		
Test salinity dump valves			
Test interlock device between powater valves	otable water and feed		
Inspect feed pump (labeled, pack	king gland,		
foundation, seal / gland cavity)			
Inspect brine pump (labeled, pac	king gland,		
foundation, seal / gland cavity)			
Inspect distillate pump (labeled,	packing gland,		
foundation, seal / gland cavity)			
Inspect brine pump (labeled, pac	king gland,		
foundation, seal / gland cavity)			
Inspect heater drain pump (label	ed, packing gland,		
foundation, seal / gland cavity)			
Inspect flexible hose condition and test tag			
Inspect feedwater strainer (foundation and basket)			
Inspect pipe labeling and lagging			
Test - Demonstrate 80% water p			
during the 4 Hour Water Produc	tion Demonstration		

8543		DUMBWAITER	
Component/Sub-Compo	onent	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Sup	port		
Inspect PMS Support			
Inspect posted operating/safety instructions at each station			
Inspect posted lubrication chart at top station			
Inspect trunk bi-parting doors			
Inspect machinery access cover bolts & nuts			
Inspect machinery oil level			
Inspect hoist machinery mounting hardware			
Inspect hoist drum			
Inspect hoist wire rope and end fitting	ngs		

-	
Test slack rope device and limit switch	
Test the hoist brake	
Test the up over travel limit switch	
Test the up deck level limit switch	
Test trunk bi-parting door limit switch	
Inspect car broken rope device	
Inspect car bi-parting door assembly	
Inspect car for missing components	
Test lower level trunk bi-parting doors and limit	
switch	
Test down over travel limit switch	
Test down level limit switch	
Inspect trunk buffer springs	
Test E-call and sound powered phone system when	
installed	
Inspect clean out cover mounting hardware	
Inspect motor controller for loose leads, posted	
placards, grounds and correct fuses	
Inspect dumbwaiter trunk for preservation and	
cleanliness	
Inspect guide rails	
Test each control station E-stop button	

8543	8543 PACKAGE CONVEYOR		OR
Component/Sub-Compone	mponent/Sub-Component		Accepted
		Procedure	Procedure
Inspect Tech Manual and EOSS Suppo	ort		
Inspect PMS Support			
Inspect posted operating/safety instruct	tions (two man		
rule/ do not ride) at each station			
Inspect posted lubrication chart at top s	station		
Test for audible warning when starting			
Inspect that all station doors are locked	l		
Inspect that all station controllers are lo	ocked		
Test door interlock system			
Inspect load/unloader at each station			
Test door cannot close when loader/un	loader is in		
horizontal or 30 deg inclined position			
Test loader/unloader down interlock sv	vitch at each		
station below upper most level			
Test jam limit switch at each station			
Inspect safety shields are properly insta	alled		
Test up-over travel switch/device operation	ation		
Test clean out door interlock switch if	applicable		
Test down overtravel device and switch	h		
Test indexing feature			
Test E-stop and run/stop buttons at all	stations		
Inspect proper florescent lighting at each	ch station		
Inspect trunk shielding and mounting h	nardware		
Inspect trunk guide rails			
Inspect conveyor trunk for preservation	n/cleanliness		
Inspect all carrier trays are installed and	d tight		
Test all station growlers and phone circ	cuits are		
functional and headsets are present			
Inspect conveyor has been load tested	within the last		
five years to include weight test data			
Inspect speed reducer is filled to prope	r level with oil		
Inspect drive, driven and carrier chains	are properly		
tensioned			
Test bite panel for correct components and proper			
operation			
Inspect motor controller for loose leads	s, posted		
placards, grounds and correct fuses			
Inspect drive machinery for missing/lo	ose		
components			

5161	REFRIGERATION PLANTS		ANTS
Components/Sub-Components		Proposed Procedure	Accepted Procedure
Inspect EPA certifications		Flocedule	Frocedure
Inspect Er A certifications  Inspect Tech Manual and EOSS S	Support		
Inspect PMS Support	опрроге		
Inspect Gauge Calibration			
Inspect operating/safety instruction	ons are posted		
Inspect compressor oil level and o	•		
Inspect warning at entrance (Free			
Inspect Refrigerant logs	n usuge) posteu		
Test halocarbon monitor operation	tion		
Test capacity control system oper			
Test calibration of alarm / shutdo			
a. HP / LP pressure switches			
b. Sea water flow / pressure	switch		
Test compressor operation (paran	neters,		
suction/discharge valves)			
Inspect for piping suppressors			
Inspect for leaks (oil/freon/sea wa	ater)		
Inspect refrigerant recovery syste	m/vacuum pumps		
Inspect sea water system (pump of			
nylon tube inserts, and condenser header)			
Test chill/freezer boxes for fan operation, lighting,			
coil condition and curtains			
Inspect ventilation (flow/location	indicators and		
alarms			

6641	FAN ROOMS		
Component/Sub-Con	mponent	Proposed Procedure	Accepted Procedure
Inspect deck condition			
- No standing water			
- Deck rusted / exfoliated			
- Deck drain not installed			
- Deck drain missing, not secured	d within deck socket		
or inoperative			
Inspect deck/bulkheads have no			
Inspect lighting is operative and			
Inspect adequate lighting present	in space		
Inspect vent duct condition			
- Access covers present			
- Access cover fasteners not ruste	ed/missing		
- Duct interior is clean			
Inspect correct vent/piping system	m labeling		
Inspect fan motor installed correct	ctly (flow)		
Inspect filters are clean and can b	e easily removed		
Inspect filter DP gauge is operati	ve		
Inspect vent heating element is o deteriorated	perative and not		
Inspect cooling coils are clean			
Inspect thermostatic controls are connected and operational	calibrated,		
Inspect the cooling coil drain is p drain and is not clogged	piped to the deck		
Inspect the proper color coding of	of piping		
Inspect that all hand wheels are p	present		
Inspect for damaged / missing lagging			
Test the C/W or steam solenoids are operational			
Inspect for chilled water / steam leaks			
Inspect for bull's eye and CCOL in space			
Inspect for any unauthorized stowed material			
Inspect for any unauthorized flan	nmables		
Inspect the filter cleaning shop			

5331	POTABLE WATER PUMPS		MPS
Component/Sub-Com	ponent	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Su	upport		
Inspect PMS Support			
Inspect Gauge Calibration			
Inspect Transducer Calibration			
Inspect Coupling Guard			
Test local start/stop functions			
Inspect pump operation/design discharge pressure,			
unusual noise, bearing temps, etc.			
Inspect packing and mechanical se	al leakage		
Inspect for ferrous fasteners			
Inspect foundation and resilient mounts			
Inspect all flex hoses are properly tested/labeled			
Inspect grounding straps			

6651 BFIMA WOI		FIMA WORKSH	WORKSHOPS	
Component/Sub-Componen	t	Proposed Procedure	Accepted Procedure	
Inspect BFIMA matrix and determine th capabilities for the ship	e required			
Inspect the following items as they perta applicable workshops:	in to the			
- PMS and Tech Manual Support of all i equipment	nstalled			
- Test operational condition of all install equipment (E-stops, cutting fluid etc).	ed			
- Test all installed equipment in their car - Inspect the monorail layout and ensure	_			
the function of the workshop	it supports			
<ul><li>Inspect all gauge calibration (calipers)</li><li>Inspect correct software/hardware pres</li></ul>	ent			
- Inspect correct/adequate cutting fluids				
present				
- Shops				
- Machine Shop				
- Welding Shop				
- Filter Cleaning Shop				
<ul> <li>Engraving Shop</li> </ul>				
- Sheet Metal Shop				
- Motor Rewind Shop				
- Carpenter Shop				
- Valve Shop				
<ul> <li>Internal Combustion Engine Shop</li> </ul>	)			
- Pipe Shop				
- Hydraulic Shop				
- Shipfitting Shop				
- AC&R Shop				
- Pump Shop				

5420	WELL DECK / LCAC FUEL SYSTEM		
Component/Sub-C	omponent	Proposed	Accepted
		Procedure	Procedure
Inspect Tech Manual and EOSS	S /AFOSS support		
kept in refueling station spaces.			
Inspect Pump Rooms			
a. Inspect PMS Support			
b. Inspect Gauge Calibration			
c. Inspect operating/safety inst	ructions are posted		
d. Test electric transfer pumps			
e. Test electric service pumps			
f. Test electric stripping pump			
g. Test hand stripping pump			
h. Test Auxiliary pump			
i. Inspect all relief valve testin	g is within periodicity		
j. Inspect TLI indicating panel			
k. Test operational remote/local	l start/stop /Controller		
Test purifiers	-		
m. Inspect transfer filter separa	ntor		
n. Inspect service filter separa	tor		
o. Inspect installed alarm pane	loperation		
p. Test all system safety device	es/alarms		
q. Test air pilot automatic disc	harge control valves		
Inspect refueling station	•		
a. Inspect fueling nozzles to en	sure they are clean		
and free of any damage	·		
b. Inspect hoses for dry rot, ex-	cessive chaffing and		
hydrostatic test tags			
c. Inspect hose reel for free rot	ation		
d. Test hose reel hand brake			
e. Inspect Gauge Calibration			
f. Test De-fuel pump			
g. Test fuel pressure			

# ELECTRICAL (EL) PRE-UNDERWAY PHASE LHD 1

3111 / 3241	SHIPS SERVICE TURBINE GENERATORS	
C	OMPONENT/SYSTEM	PROPOSED PROCEDURE
Test Reverse Power Relays 3111/004		A-6R
Test Parallel operation		IAW EOP
Test Manuel Lo	oad Shedding 3241/010	18M-6
3121/3241	EMERGENCY DIESE	L GENERATOR
C	OMPONENT/SYSTEM	PROPOSED PROCEDURE
Dead Bus Pick-	oup 3241/010	S-2
Test Reverse Po	ower Relays	A-7R
3143	3143 400 HERTZ DISTRIBUTION SYSTEM (CONVERTERS)	
C	OMPONENT/SYSTEM	PROPOSED PROCEDURE
Test Frequency Breaker Shunt	Changer 60 Hz Input Circuit Trips.	A-6
Test Split and Parallel Operation IAW E		IAW EOP
4221	TELL-TALE PANEL/NAVIGATION	ON SIGNAL LIGHT PANEL
C	OMPONENT/SYSTEM	PROPOSED PROCEDURE
Conduct Opera	tional Test	R-2
Measure insula	tion resistance of Signal Light Panel	S-1
Measure Insulation Resistance of Navigational Lighting Panel.		S-1
4331	ANNOUNCING SYSTEMS	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
Test General, C all stations	hemical, and Collision Alarms from	Q-1R

i e			
Test 1MC from	m all stations	Q-1R	
Test 5MC Operation		Q-2R	
Test 6MC Operation		Q-1R	
Measure Speaker group insulation.		A-1	
Test 21MC Operation		Operational Test	
4751	DEGAUSSING	DEGAUSSING SYSTEM	
COMPONENT/SYSTEM PRO		PROPOSED PROCEDURE	
Conduct Lines	arity Test	Q-1	
Conduct groun	nd Test.	M-2	
Inspect Degaussing Folder		NAVSEA TECH MANUAL	
3241	AUTOMATIC BUS TRANSFER EQUIPMENT		
COMPONENT/SYSTEM PROPOSED PROCEDURE			
Test all Engineering ABT's.		S-1/R-1	
Test all remaining ABT's. (Day 2) S-1		S-1	
4371	EVAPORA	ATORS	
(	COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Test dump val	ve operation	S-2	
Test alarm Settings		S-2	
4373	WIND INDICATING SYSTEM		
COMPONENT/SYSTEM		PROPOSED PROCEDURE	
Test System For Proper Operation			
Test System F	or Proper Operation	R-1M	

5081	THERMAL IMAGING SURVEY	
COMPONENT/SYSTEM		PROPOSED PROCEDURE
NOTE: Any of temperature rise (3 or 4 star) m getting underv	nermal Imaging Throughout The Ship equipment surveyed that has a se of 40 degrees centigrade or above ust be repaired or tagged out prior to vay. The items will not be available re completed and re-shot for	R-1 / R-2

### ELECTRICAL (EL) UNDERWAY PHASE

**NOTE**: Electrical Underway Checks Consist Mainly Of Space Walk-Through Throughout The Ship.

In each space inspect the following if applicable:

#### (INSPECT) FUSE BOXES

· · · · · · · · · · · · · · · · · · ·	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Are fuses pulled from designated circuits without danger tags affixed?	NSTM 300 - 2.4.1
Are there loose or missing locking nuts or gear adrift?	NSTM 300 – 4.8.1
Are circuits properly labeled for easy identification?	GSO 305E
Are there any bent, twisted, misaligned, or broken fuse clips?	NSTM 300 4.8.1
Is the interior rusty or dirty?	NSTM 300 – 4.8.1/5.2.4
Are fuses of the correct amperage and voltage	GSO 303F
installed?	NSTM 320 – 1.7.4
Are circuits fed from one set of fuses (except battle lantern circuits) multiple?	GSO 331C
Are fuse clips phosphor-bronze instead of silver plated?	NSTM 300 – 4.8.1.2
Were door hinges broken?	5100.19 SERIES NSTM 300
Are non-silver ferruled fuses installed?	NSTM 300 - 2.5.4
Are circuits over fused?	NSTM 300 – 2.5.4
Is clearance provided to permit complete accessibility for maintenance, repair, renewal of fuses, and testing?	GS0 300D

#### (INSPECT) BATTLE LANTERNS

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were relay-operated lanterns installed in sufficient number?	NSTM 330 – 1.6.4.3.3.1
Are lanterns installed with suitable bracket assemblies to prevent removal of lantern?	NAVSEA 0964-000-2000 NSTM 300
Were lanterns inoperative?	NSTM 330 – 3.6.2
Were test switches and relay frames grounded?	NSTM 330 – 2.1.8

(INSPECT) BATTLE LANTERNS (CON'T)	
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were lanterns located in explosion proof enclosures (prohibit)?	NSTM 330 – 1.6.4.3.2.2
Were NEALS lanterns installed and were they charged (red indicator)?	NSTM 330 – 1.6.4.3.2
Were relay operated lanterns fused?	NSTM 330 – 1.6.4.3.3.3
(INSPECT / TEST) SHORE POV	WER SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is shore power being properly rigged?	NSTM 320-2.2.7
Did shore power shunt trip interlocks trip its	IAW PMS
associated breakers when tested?	IAW EOSS
	GSO 320D
Was shore power system cabling between the	SPRU
receptacles and the ship's switchboard insulation	NSTM 300/320
resistance within EOSS or PMS Limits	
Were shore power indicating lights operative, white in color, and all screws installed?	NSTM 320 – 2.2.9
Were warning signs posted?	GSO 070H
Was there pigtail stowage installed?	GSO 320D
Does the shore power system meet the current	GSO 320D
standards:	
<ul> <li>Have a Viking Connector System</li> </ul>	
<ul> <li>Have AQB-LF400 Amp Circuit Breaker</li> </ul>	
with shunt trip	
- Have a phase sequencing and phase	
orientation devices.	
- Have installed ammeter and selector switch	
to monitor total shore power current.	

(INSPECT) CATHODIC PROTEC	TION SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was the installed Cathodic Protection System operative and adjusted	GSO 633C
Were the rudder grounding straps made of 1-1/2 inch	NSTM 633 – 3.3.2.7
wide braided copper and brazed to the rudder stock and the hull?	GSO 633C
Has the system been turned off greater than 15 days?	GSO 633G
Was brush rigging correctly installed?	NSTM 633- 3.3.2.6
Were shaft grounding brushes correctly installed?	NSTM 633
	ICCP Tech Manual
Did shaft grounding brushes exhibit full contact with	NSTM 633 – 3.3.2.6
the slip ring?	ICCP TECH MANUAL
(INSPECT / TEST) ALARM S	SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Test alarm switchboards and panels.	4351/Q-2
Were any alarm and warning systems inoperative or missing parts?	GSO 433J
(INSPECT) ORDER/INDICATING/ME	TERING SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were Tank Level Indicators (TLI's) out of calibration or inoperative?	GSO 437 E
Were valve position indicator circuits misadjusted or inoperative?	GSO 430H
Were there missing or inoperative salinity cells?	GSO 531B
	IAW PMS
MOTOR CONTROLLE	ERS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were interiors dirty, rusty, deteriorated, or contained	NSTM 302-3.3.2
gear adrift?	GSO 320F
Were wiring diagrams, schematics or overload heater tables missing?	NSTM 302-3.3.1

MOTOR CONTROLLERS (CON'T)		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Was controller electrical wiring properly banded?	ELECT PLT. INST. STD METHODS/GSO 302F	
Were Start, Stop, "Emergency Run" or Reset buttons seized, missing or inoperative?	3001/S-1/18M-1	
Were rubber boots cracked, torn or missing?	NSTM 300-3.2.2 3001/S-1/18M-1	
Were overload relay heaters properly sized and adjusted to provide adequate protection for the motor?	NSTM 302-3.3.2 GSO 302G	
Were switches protected against inadvertent activation?	GSO 070H	
Were controllers with multiple power sources properly labeled?	GSO 305C	
Were motor foundations properly preserved?	GSO 631J	
Were controllers and remote operating stations properly labeled?	GSO 305C	
Is clearance provided to permit complete accessibility for operation, maintenance, repair, renewal of fuses, and testing?	GSO 300D	
WORKBENCHES		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
- Does the workbench conform to standards set forth in NSTM 300 APP H? (Insulation, ground straps, disconnect switches, labeling, ground connections, etc)	NSTM 300 GSO 320E GSO 665 GSO 650	
(INSPECT) ELECTRICAL SAFETY		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Were flat irons a high-grade commercial type with a three pronged cord?	NSTM 300-2.7.3.6 GSO 640G	

Were Ironing Board Stations in berthing space modified to remove spotlight and fill the access hole? Ensure irons are not hardwired.	GSO 640G
(INSPECT) ELECTRICAL SAF	ETY (CON'T)
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Have shorting probes been modified by installing a nylon screw in the end of the probe and soldering the clip to the conductor?	NAVELEX 0101, 110A FIG 1- 3 IAW PMS
Are portable tools/devices not stamped "Double Insulated" or equipped with a three pronged cord?	NSTM 300-2.7.3.3 IAW PMS
Were Hospital grade plugs used on portable equipment?	NSTM 300-2.7.3.2.8
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4.3.3
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2.2.4 NSTM 330-2.2.9
Were light fixtures missing lenses, protective guards, or faceplates?	NSTM 330-2.1.4 NSTM 330-2.2.6
Did diesel module room have adequate lighting?	GSO 331B GSO 332E
Were spray-tight fixtures adequately protected against water intrusion?	NAVSEA 0964-000-2000
Was bunk lighting cable hanging, or not routed through the inside of bunk stanchions?	NAVSEA 0964-000-2000
(INSPECT) CABLIN	G
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was PVC cabling installed (new construction only)?	GSO 304D
Were dead-ended cables properly identified/terminated?	NSTM 300-4.6.7 GSO 304E NSTM 300-4.6.9 DOD-STD-2003-1
Were useless or improperly installed cables removed?	NSTM 300-4.6.7.1 GSO 304E
Was cabling properly supported, routed or were nylon wire ties being utilized?	

(INSPECT) CABLING (CON'T)		
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
Were cables pulling out of equipment?	GSO 331E	
Were cables improperly spliced?	GSO 304E NSTM 300-4.6.8 DOD-STD-2003-1	
Were cables protected against being handholds or being stepped on?	GSO 304E	
Was cabling run through beams without the use of chaffing rings?	NSTM 300 TABLE 300-4-4 GSO 304E	
Was cabling running through metal partitions equipped with grommets?	GSO 304E NSTM 320-1.6.11	
Were cable stuffing tubes properly assembled?	NSTM 300-4.6.10.1 NSTM 300 TABLE 300-4-4 NSTM 320-1.6.11 GSO 304E	
Were multiple cables running through one stuffing tube?	GSO 304E NSTM 300 TAB. 300-4-4	
Were multi-cable penetrators installed in Flammable Liquid Storerooms?	GSO 304E MIL-STD-1310	
(INSPECT) BUS TRANSFER E	QUIPMENT	
COMPONENT/SYSTEM	PROPOSED PROCEDURE	
<ul> <li>Were ABT's installed for the following:</li> <li>Emergency Lighting.</li> <li>IC Switchboard and panels.</li> <li>Steering power panel.</li> <li>Pumps associated with the main and auxiliary machinery plant having Low Voltage Release (LVR) control.</li> <li>Fire pumps.</li> <li>Fire extinguishing auxiliaries and controls.</li> </ul>	NSTM 320-1.3.2 GSO 320D	
Did ASCO ABT transfer switches have an electrical charge on the metal screw on the manual operator?	NAVSEA FSC SER 03E2/03E2-234	
Was the sliding interlock on manual bus transfer switches effective at preventing both breakers from being closed at the same time?	NSTM 300-4.8.4.2	

Are feeder circuit breaker megger holes blanked off?	NAVSEA 230319ZNOV 98
Were Normal/Alternate source indicating lights operative?	NSTM 320-2.2.6.4
(INSPECT) SHIP TELEPHON	E SYSTEM
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was the system unreliable due to unresolved software or hardware deficiencies?	NSTM 430-3 GSO 432
Test battery back-up for telephone system	NSTM 313-2.5 GSO 313J
(INSPECT) MOTOR	S
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were motor foundations properly preserved?	NSTM 300- 5.4.3.10 GSO 631J
Was resilient mounted electrical equipment groundedto the ships hull through ground straps?	NSTM 300- 2.2.1
Did electrical rotating machinery have ball check grease fittings (zerk fittings) installed?	NSTM 244
Were coupling, belt, or chain guards effective?	GSO 320E
POWER PANELS	<u> </u>
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Do labels specify the proper information?	GSO 305E
Do Breaker ratings match the circuit label current rating?	GSO 305E
Are multi-phase circuits missing breaker connecting handles?	GSO 324C
Were power panels located inside galley spaces?	GSO 320E
Is clearance provided to permit complete accessibility?	GSO 300D
CASUALTY POWER CA	BLES
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were cable ends properly terminated?	GSO 304E NSTM 320-3.4.1 DOD-STD-2003
Were cables deteriorated from age, heat, and humidity?	NSTM 079-47.4.2.2.10
Were normally energized power terminals labeled?	NSTM 320-1-2-8-2

Were racks properly identified as to number/length of cables assigned to the rack?	GSO 305F
CASUALTY POWER CABLE	S (CON'T)
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is there a label attached at the end of the cable to indicate the length and stowage rack number?	GSO 305F DOD-STD-2003
Are cable leads properly identified for phase identification?	NSTM 320-1.2.8.2
Were cable ferrules missing or heavily oxidized?	NSTM 079-47.4.2.2.6
Was an improper number/length of cable installed on a cable rack?	NSTM 079-47.5.6.1 GSO 320G
Were wrenches missing from terminals?	NSTM 079-47.4.2.3.3
Were covers installed on power terminals?	NSTM 079-47.4.2.3.4 NSTM 079-47.4.2.3.6 GSO 320G
ELECTRICAL DISTRIBUTION	EQUIPMENT
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was electrical distribution equipment securely mounted? Electrical distribution equipment have loose or	NSTM 300-4.3.3 GSO 300D NSTM 300-4.3.3
missing covers?	
Were control knobs or fasteners missing from electrical equipment?	NSTM 300-4.3.3
Was electrical equipment protected from water	NSTM 300-4.4.1
intrusion?	NSTM 300-4.4.5
Is electrical properly mounted or was it suspended solely by electrical cables?	NSTM 300-4.3.3
Were 440 multipurpose outlets properly phased?	NSTM 320-1.4.1
Did Standard Navy Receptacles (SNR) and Multi-Purpose Outlets (MPO) have an interlock switch or was the switch function such that the plug could not be removed from an energized receptacle?	NSTM 320-1.4.1
Were electrical receptacles broken or damaged?	NSTM 300-2.7.6
Were 400HZ AC, 60HZ AC, and DC convenience	GSO 320

outlets labeled to prevent equipment being used with the wrong frequency?	
SOUND POWERED TELEPHON	NE SYSTEMS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were any Sound Powered Circuits below 50,000 ohms resistance to ground?	GSO 432I
Were Sound Powered Call Signal Stations (growlers) inoperative, corroded, damaged or missing parts?	NSTM 430
Were Sound Powered Jackboxes improperly labeled, corroded, damaged, or missing parts?	NSTM 430-3.2
(INSPECT) LIGHTIN	IG
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were darken ship switches operative and adjusted properly? Ship provide list of darken ship switches for survey.	DOD-HDBK-289 NSTM 330-3.6.5
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2
Were light fixtures missing lenses, protective guards, of faceplates?	or NSTM 330-2
Were spray-tight fixtures adequately protected against water intrusion?	NSTM 300-4
Did diesel module room have adequate lighting?	GSO 331B/332E
(INSPECT) BATTERY LO	CKERS
COMPONENT/SYSTEM	PROPOSED PROCEDURE
Was a Battery Log maintained?	NSTM 313-2 GSO 313F
Is there an electrical interlock between exhaust ventilation and battery charger?	5100.19C C0904 NSTM 313
Test ventilation interlocks	3131/S-2
Are Alkaline and Lead Acid Batteries being serviced in the same facility?	GSOF
<ul> <li>Is each locker provided with: <ul> <li>Rubber Gloves and Aprons.</li> <li>Goggles.</li> <li>Two battery fillers.</li> <li>Two battery test sets.</li> </ul> </li> </ul>	5100.19 GSO 313F NSTM 313
- One soda water container.	

Does the locker contain an eye wash station and a	NSTM 313-2	
deluge shower?		

(INSPECT) BATTERY LOCKERS (CON'T)			
COMPONENT/SYSTEM	PROPOSED PROCEDURE		
Are battery storage racks greater than 12 inches between tiers?	GSO 313F		
Were battery hold-down clamps provided?	GSO 313F		
Are Acids stored in appropriate protective containers?	GSO 313F		
Are battery charger plugs and jacks marked NEG. and POS.?	GSO 313F		
(INSPECT) MISCELLANEOUS E	QUIPMENT		
COMPONENT/SYSTEM	PROPOSED PROCEDURE		
Is permanently mounted electrical equipment hardwired to the ships electrical system?	NSTM 330-1		
Is hardwired electrical equipment permanently mounted?	NSTM 330-1		
Was more than 1 multi-purpose power strip connected to one isolated receptacle circuit?	NSTM 300-2.7		
Is electrical equipment mounted on non-conducted surfaces properly grounded?	3000 / A-5		
Were Surge Protectors of the approved type?	3000 / A-4R		
Are portable electric device power cords properly tinned?	3000 / Q-1R		
Are permanent-type safety precautions, operating instructions, high voltage warning signs, and resuscitation instructions installed where required?	NSTM –H.5, I-2		
Did electrical connection boxes have knockouts pushed in leaving access holes In the side?	NSTM 300-2.		
Are non-watertight connection boxes being used in engineering spaces?	GSO 300D		
Was rubber matting oil soaked, cracked, punctured, perforated or had imbedded metal or conductive particles?	GSO 634B		

(INSPECT) MISCELLANEOUS EQUIPMENT (CON'T)			
COMPONENT/SYSTEM	PROPOSED PROCEDURE		
Did dress ship lights have broken, missing, or incorrect guards?	NSTM 330-1 3000/ R2		
Were dress ship light receptacles labeled "Dress Ship			
Light Streamers. Not to be used for any other purpose"?			
	NSTM 330-1-		
Were panel switches controlling circuits that are de- energized during darkened ship operation marked DARKENED SHIP?			
	NSTM 330-1		
Had the float charge on the UPS batteries been reduced from 135vdc to 129vdc?			
	IAW PMS		
Was UPS electronic cabinet bottom sealed to prevent	GS0 300D/324D		
water of oil entry from lower level engine room?	NSTM 300-4		

# ELECTRICAL (EL) POST-UNDERWAY

# LHD 1

OPEN AND	INSPECT	AS REC	DUIRED BY	THE	<b>INSPECTION</b>

COMPONENT/SYSTEM	PROPOSED PROCEDURE

# MAIN PROPULSION PRE-UNDERWAY PHASE LHD 1

2210	PROPULSION BOILERS	
Compor	nent/Sub-Component	Proposed Procedure
IDLE BOILER:		
Test F/O safety shu	utoff device/root valves	2210/006 (R-5, R-6)
Test F/O Quick Clo	osing Valves	EOP FOS
Inspect burner lead	bends and flange shields	NSTM 505-7.9.4
Test final control e	lement air locks	2212/108 (A-3R)
Test F/O service ta	nk bulkhead stop valves	5000/005 (S-2)
Test F/O service ta	nk Quick Closing valves	5000/005 (S-2)
Test steam smother	ring system	2210/006 (18M-1)
Test safety valve h	and easing gear	2210/006 (24M-2)
Test remotely close	e main steam stop valve	2531/004 (S-1)
Test remotely close	e auxiliary steam stop valve	5340/006 (S-1)
ALL BOILERS:		
Test boiler water h	igh/low level alarms	2210/006 (Q-1R, Q-3R)
Test gauge glass ha	and easing gear	NSTM 221
Test gauge glass no	ormal/emergency lighting	NSTM 221-3.4.2
Inspect bottom blow system material		S9221-D2-MMA-010, 8-3.1.3.B
Inspect bottom blow valves for leak by		NSTM 221-4-17.3
Inspect for sliding feet movement		2210/006 (M-1)
Contral air Alarm Test		2212 A 3R
Air Lock Test		2212 A 3R

ALL BOILERS: (cont.)	Proposed Procedure
Inspect gauges/instruments	JFMM V4/CRL
Inspect Stack Gas Analyzer	4361/001 (A-5)
Inspect Periscope	NSTM 221-3.5
Inspect smoke pipe expansion joint	NSTM 221-2.1.3
Inspect Boiler Casing and Insulation	2210/001 (R-1)
Inspect Sample Coolers	NSTM 220
Inspect drain valve piping	NSTM 505
Test ABC system 28 VDC UPS	2212/161 (Q-4R)
Inspect Elec ABC system laptop computer	TECH MANUAL
Verify burner barrels are serialized and hydro'd	NSTM 221 2210/006 A-8

2550	2550 MAIN FEED PUMPS	
Component/Sub-Component		Proposed Procedure
Test low suction tr	ip	2550 (Q-4)
Test speed limiting	g governor	2550 (S-10)
Test overspeed trip	and observe roll over	2550 (S-12)
Test/Sample lube oil		2000/001 (R-1)
Test combination exhaust/relief valve		2550 (S-8)
Test electric lube oil pump auto start		EOP MFPT
Inspect pump packing gland/mechanical seal		NSTM 503-5.3.8
Inspect flange shields		NSTM 505-7.9.4
Inspect relief valves		NSTM 505-9.17.5
Inspect gauges/instruments		CRL

2550	MAIN BOOSTER PUMPS	
Compor	nent/Sub-Component	Proposed Procedure
Inspect gauges		CRL
Inspect MFBP		NSTM 503-5.3.8
- packing gland/me	echanical seal	

2511 FORCED DRAFT BLOWERS			
Component/Sub-Component		Proposed Procedure	
Test low lube oil tr	rip and observe roll over	2511/004 (S-6)	
Test speed limiting	governor	2511/004 (S-3)	
Test shutter operation		2511/004 (PM-2)	
Test elect lube oil pump auto start/stop		2511/004 (S-7)	
Inspect/Sample lube oil		2000/001 (R-1)	
Inspect gauges/instruments		CRL	
Inspect flange shields		NSTM 505-7.9.	
Test Combination Exhaust Relief Valve		5000/005	

2610 FUEL OIL SERVICE PUMPS			
Compor	nent/Sub-Component	Proposed Procedure	
Test remote shut de	own (cold plant)	EOP FOS	
Test fuel oil service	e constant pressure control vlv	2610/057 A-14	
Test auto speed advance/low pressure shut down		2610/057 (A-5R)	
Inspect electric fuel oil service pump		NSTM 503-5.3.8	
- packing gland/mechanical seal			
Inspect instruments, gauges and thermometers		CRL	
Flush FO revolving strainer		2610/057 W-1R	
Inspect discharge relief valve		NSTM 505	
Inspect Fuel Oil Accumulator and N2 charge		2610/057 (S-2R)	

2550	2550 DEAERATING FEED TANK	
Component/Sub-Component		Proposed Procedure
Test DFT gauge glass hand easing gear		LOCAL EOP
Test D.O.		NSTM 220
Inspect DFT		
- relief valve		
- vacuum breaker		
- gauge glass		NSTM 505
Inspect gauges/instruments		CRL

2550 EMERGENCY FEED PUMP		
Component/Sub-Component		Proposed Procedure
Demonstrate operation and feed boiler successfully for 10 minutes		EOP EFP
Inspect for water/s	team leakage	EOP EFP
Inspect pump disch	narge relief valve	NSTM 505
Inspect gauges/inst	truments	CRL
2211	BOILER INSPECTION DEV	ICE
Component/Sub-Component		Proposed Procedure
Test boiler inspection device		2211/002 (M-2R)
ADMIN/DOCUMENTATION		1
Component/Sub-Component		Proposed Procedure
BW/FW records (last 3 months)		NSTM 220/221
Bottom blow UT records		NSTM 220/221
Soot blow ppg UT records		NSTM 220/221
Soot blow head UT records		NSTM 220/221
Burner barrel hydrotest records		2210/006 (S-5R)

2320	MAIN ENGINES	
Component/Sub-Component		Proposed Procedure
Test Main Conden	ser SW Inlet Valve	MIP 2560/807 (R-4)
Test Main Conden	ser SW Outlet Valve	MIP 2560/807 (R-4)
Test Scoop Injection	on SW Inlet Valve	MIP 2560/807 (R-4)
Test Main Circ Pur	mp Emerg Bilge Suction Valve	MIP 2560/807 (R-4)
Test Main Engine	Guarding Valve	5000/005 A-3
Test Throttle Valves		5000/005 S-3
Inspect Turbine Gland Seal Regulating Valve		NSTM 505
Inspect Turbine Gland Seal Dump Valve		NSTM 505
Inspect Turbine Crossover Piping Sentinel Valves		NSTM 505
Inspect Air Ejectors		EOP MEAJ
Inspect Drain systems		NSTM 505
Inspect Demineralizer Operation		EOP MCD
Inspect condenser expansion joints		2560/005 A-3
Verify hotel drains are being recovered/aligned		EOP FW

2411 REDUCTION GEARS	
Component/Sub-Component	Proposed Procedure
Test Shaft Turning Gear	EOP MRJG
Inspect Lube Oil Condition/sump level	2000/001 (R-1)
Inspect MRG Interior	2411/009 (A-1R)
- Gear Teeth contact/condition	NSTM 244
- Lube Oil Spray Pattern	
- Casing Interior	
- Attached LO Pump Angle Drive Gear	
Inspect Oil Flow in SFI's	NSTM 241
Instruments, gauges and thermometers	JFMM V4/CRL
Inspect Casing Exterior	NSTM 241
Inspect Vent Fog Precipitator	EOP RGVS
Inspect Dehumidifier	EOP RGVS
Inspect Security Devices	NSTM 241-4.2.3
Inspect Flange Shielding	NSTM 505
Inspect Piping Systems	NSTM 505

2990	2990 LINE SHAFT BEARINGS	
Component/Sub-Component		Proposed Procedure
Inspect/Sample lube oil		MIP 2000/001 (R-1)
Inspect Sump Drain Valve		NSTM 244-2.4.3
Inspect Seals		NSTM 244-2.4.3
Inspect Thermometers		CRL
Inspect Lubricator		EDORM
Inspect Dip Stick		EDORM
Inspect Lock Wires		EDORM

2430 STERN TUBE SEALS		
Compor	nent/Sub-Component	Proposed Procedure
Test Cooling Water	er Low Flow Alarm	EOP STCW
Test Inflatable Sea	1	2400/012 (S-1)
Inspect Gauges		CRL
Inspect Cooling Water Piping		NSTM 505
Inspect/shift Cooling Water Strainer/Filter		EOP STCW
Inspect underway seal leakage rate		NSTM 244
Inspect LP Air Supply		NSTM 505
Inspect LP Piping/Hoses/Fittings		NSTM 505
Inspect CO2/N2 Piping/Fitting		NSTM 244-6.2.5.1
Inspect Emergency Flax Packing Kit		S9243-BG-MMA-01/0SYN4

1130	130 HULL STRUCTURE	
Component/Sub-Component		Proposed Procedure
Inspect Bilges/Angle Irons		NSTM 090
Inspect Deck Plates		NSTM 090
Inspect Equipment Foundations and resilient mounts		NSTM 090
Inspect Paint and Preservation		NSTM 631(V2) (V3)
Inspect Pipe Brackets/Hangers		A-700/ 038 (18M-1R)
Inspect Lighting		NSTM 300

2620 LUBE OIL SYSTEMS		
Component/Sub-Component		Proposed Procedure
Test Main Engine	Lube Oil Sequencing	2620/011 (R-1)
Test Main Engine	Low Lube Oil Alarm	2620/011 (R-1)
Inspect Electric Lu - Mechanical Se	•	NSTM 505
1.10011dilliodi S.	g and Unloading Valve	NSTM 503
Inspect attached M - Mechanical Se	Iain Engine Lube Oil Pump eals	NSTM 503
Inspect Lube Oil S	trainer Baskets and Enclosure	EOP LOPO
Inspect system flange shields		NSTM 505
Inspect lube oil pump relief valves/test data tag		2620/001 (60M-1)
Inspect gauges and instruments		CRL
Inspect Temp Regulating Valve		NSTM 505
Demonstrate Lube Oil Purifier Operation		EOP LOPO
Inspect Lube Oil Purifier Heater relief valve/test data tag		NSTN 505
Inspect Lube oil heater		NSTM 505
Demonstrate L/O purifier emergency stop		EOP LOPO
Demonstrate Lube Oil Purifier Efficiency		2000 R-1; NSTM 262

2500	CONTROLS	
Component/Sub-Component		Proposed Procedure
Test EOT Indicator		EOP EOT
Test RPM Indicator		EOP EOT
Test Console Alarms and Indicators		EOP EOT
Test Wrong Direction Alarm		EOP EOT

3110	GENERATORS	
Component/Sub-Component		Proposed Procedure
Inspect Lube Oil Condition/ Sump Level		2000/001 (R-1,2)
Inspect Lube Oil S	FIs	NSTM 241-2.3.8; 244-3.3.6
Inspect Vent Fog I	Precipitator	NSTM 241-3.2.6
Inspect/Shift Lube	Oil Strainer	EOP LOSTG
Airbox Telltale Dr	rains	NSTM 310
Inspect Gland Seal	l Operation	EOP TG
Inspect Aux Circ F - Packing gland	Pump //mechanical seal	EOP TG
Inspect Aux Cond - Packing gland	Pump /mechanical seal	EOP TG
Inspect Aux Air E	jectors	EOP TG
Test Lube Oil Pump Autostart		3411/003 (R-5Q)
Test Low Lube Oil Alarm		3411/003 (R-5Q)
Inspect Turbine Casing Relief Valve		NSTM 505
Test Overspeed Tr	ip	3111 (Q-1)
Test Manual Trip		3111 (Q-1)
Test Back Pressure	e Trip	3111 (18M-3)
Test Auxiliary Con	ndenser SW Inlet Valve	5000/005 (S-2)
Test Auxiliary Condenser SW Outlet Valve		5000/005 (S-2)
Inspect centrafilter		EOP TG
Inspect flange shields		NSTM 505
Inspect duplex oil filter(GOV)		EOP TG
Inspect Aux Condenser sight glass		EOP TG

#### MAIN PROPULSION UNDERWAY PHASE LHD 1

	TEAM ARRIVAL	
Component/Sub-Component		Proposed Procedure
Check applicable edeficiencies.	equipment for correction of	
Tour space, ensure	ready for sea.	
	MISCELLANEOUS	
Inspect Oil Lab, sa	impling equipment	NSTM 220
Complete Open an to the Engineer Of	d Inspect List and give a copy ficer.	
	CHELANT TREATMENT SY	YSTEM
Inspect Spill Locke	er and inventory	NSTM 220
Inspect hydrazine	locker	NSTM 220
Inspect injection ca	abinet	NSTM 220
Inspect chelant treatment tank and associated equipment		NSTM 220
	DEMONSTRATIONS	
Demonstrate Full I	Power ahead (1 hour)	PMS/EOSS/POG/9094.1B
Demonstrate Quick	k Reversal Astern	POG/Full Power Memo/EOSS
Demonstrate Quick Reversal Ahead		POG/Full Power Memo/EOSS
Demonstrate soot blower operation as soon as possible after underway. <b>Note:</b> Demonstrate soot blower head pressure PMS on one rotating and one stationary head per boiler while blowing tubes.		EOP SOBO
Demonstrate boiler flex test (all boilers will be flexed prior to Full power.)		2212/161 (S-4R)
Demonstrate fuel oil purifier (s) operation		EOP FOP
Demonstrate purifier (s)emergency stop capability		EOP FOP

STEAM FIRE PUMPS	
Inspect gauge calibration	JFMM V4
Inspect transducer calibration	JFMM V4
Inspect coupling guard	5210/806 R-3/4/33/34
	OPNAVINST 5100.19
Inspect foundation	5210/806 R-3/4/33/34
	NSTM 503
Inspect ferrous fasteners	5210/806 R-3/4/33/34
	NSTM 075, 505
Inspect resilient mounts	5210/806 R-3/4/10/15/30/33/34
	NSTM 503
	NAVSEA S9073-A2-HBK-010
Inspect piping & supports	5210/806 R-10/15/30
	NSTM 505
Inspect all flex hoses are properly tested/labeled	5000/009 A-1/A-2
	5000/014 A-1/A-2
Inspect piping lagging	5210/806 R-10/15/30
	NSTM 505, 635
Inspect the suction strainer	EOSS
	NAVSEA/OEM TECH
	MANUAL
Inspect pump operation (design discharge	EOSS
pressure, gages, unusual noise, bearing temps,	NAVSEA/OEM TECH
etc).	MANUAL
Inspect for proper seating of check valve and no	NAVSEA/OEM TECH
reverse rotation upon securing pump	MANUAL
Inspect lube oil filter indications and oil level	5210/015 Q-10
Test the over speed trip	5210/015 Q-2
Test the speed limiting governor	5210/015 Q-2
Test the turbine auxiliary lube oil pump low-	5210/015 S-6
pressure automatic start switch operation	
Test combination exhaust and relief valve	5210/015 Q-4
	5000/013 72M-1R